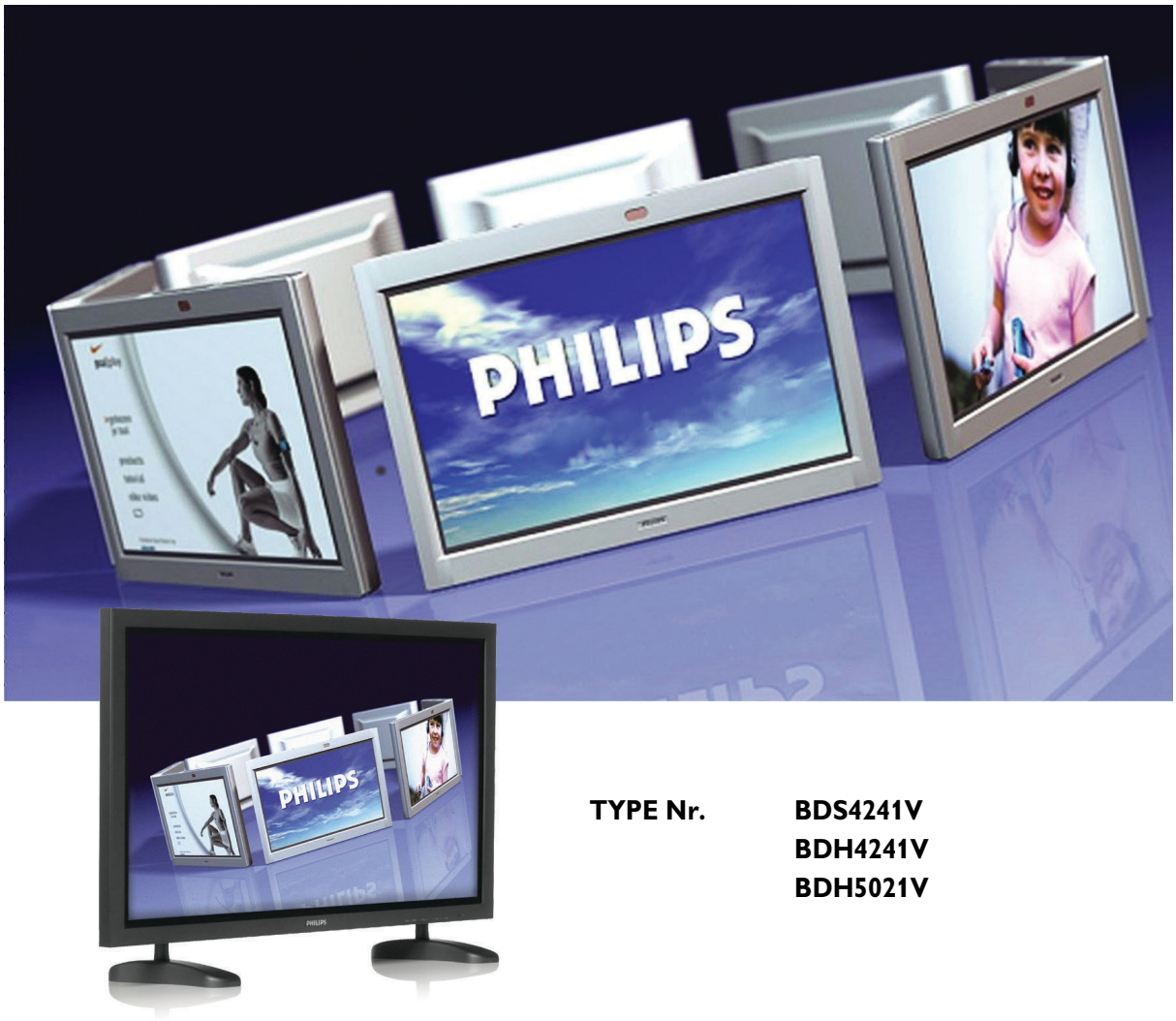
Philips
Business
Solutions

EN **User Manual**



TYPE Nr. **BDS4241V**
BDH4241V
BDH5021V

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1. IMPORTANT NOTES AND SAFETY INSTRUCTIONS

1.1 SAFETY INSTRUCTIONS

- Read and keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Disconnect from the electric outlet before cleaning. Do not use liquid or aerosol cleaners. Clean only with a slightly damp cloth.
- Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
- Do not install in direct sunlight, near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Do not remove cover, to prevent electric shock. Refer servicing to qualified service personel only.
- Unauthorized modification of this equipment or usage of an unshielded connecting cable may cause excessive interference.
- Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls can result in damage which often requires extensive work by a qualified technician to restore the unit to normal operation.
- Use in well-ventilated area and do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
- The unit must be operated from the type of power source indicated on the label. If the type of available power is unknown, consult your dealer or local power company.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician. Do not alter the plug; this will defeat the safety feature.
- Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- If the picture displayed looks abnormal, turn off the unit and disconnect it from the electric outlet. Verify your signal wire connections and reconnect the display to the electric outlet.
- Only use attachments/accessories specified by the manufacturer.

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- Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- This product may contain mercury. Disposal of this material may be regulated due to environmental considerations.
  For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
- Damage Requiring Service:
  The appliance should be serviced by qualified service personnel when:
  - The power supply cord or the plug has been damaged or frayed.
  - Objects have fallen, or liquid has been spilled into the appliance.
  - The appliance has been exposed to rain.
  - The appliance does not appear to operate normally or exhibits a marked change in perfomance.
  - The appliance has been dropped, or the enclosure damaged.
  - Unit does not operate normally when the operating instructions are followed.
- Tilt/Stability:
  - All displays must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
  - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
  - Do not endanger yourself, or children, by placing electronic equipment/toys on the top of the set and cause product damage and/or personal injury.
  - Do not place the unit on an unstable cart, stand or table. Or the product may fall, causing serious damage.
- Do not place the unit on a bed, soffa, rug, or similar surfaces.
- Wall or Ceiling Mounting:
  The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- Power Lines:
  An outdoor antenna should be located away from power lines.
- Object and Liquid Entry:
  Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

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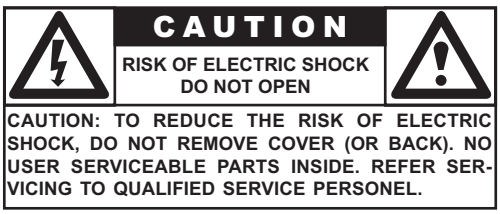
- Battery Usage:
  CAUTION: To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit.
  - Install all batteries correctly, with + and - aligned as marked on the unit.
  - Do not mix batteries (old and new or carbon and alkaline, etc.).
  - Remove batteries when the unit is not used for a long time.

1.2 WARNINGS AND PRECAUTIONS

1.2.1 NOTE TO THE CATV SYSTEM INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground must be connected to the grounding system of the building, as close to the point of cable entry as practical.

KNOW THESE SAFETY SYMBOLS


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONEL.

- This lightning flash with arrow-head within a triangle indicates uninsulated material within your unit, which can cause an electric shock. For the safety of everyone in your household, do not remove product cover.

- For the safety of everyone in your household, do not remove product cover. The exclamation point within a triangle calls attention to features for which you mustread the enclosed literature closely to prevent operating and maintenance problems.

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WARNING
To reduce the risk of fire or electric shock, this appliance must not be exposed to rain or moisture, and objects filled with liquids, such as vases, must not be placed upon this apparatus.

CAUTION
To prevent electric shock, match wide plug blade to wide slot, and fully insert.

ATTENTION
Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la bome correspondante de la prise et pousser jusqu'au fond.

1.3 CLEANING & CARE

- To avoid possible shock hazard, please be sure that the television is unplugged from the electrical outlet before cleaning.
- When cleaning the television screen, take care not to scratch or damage the screen surface (avoid wearing jewelry or using anything abrasive).
- Wipe the front of the screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool clear water. Use a clean dry cloth to dry the wiped surfaces.
- Occasionally vacuum the ventilation holes or slots in the cabinet back.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.
- Do not allow a still image to be displayed for an extended period of time as this can cause a permanent after-image to remain.

1.4 END-OF-LIFE DISPOSAL

- This Philips product and its packaging contain materials that can be recycled and re-used. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts which need to be properly disposed.
- This product might also use batteries, which should not be thrown away when depleted, but should be handed in and disposed of as small chemical waste.
- Please find out about the local regulations regarding the disposal of the television, batteries, and packaging materials whenever you replace existing equipment.

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2. UNPACKING AND INSTALLATION

2.1 UNPACKING

- The monitor is packed in a carton, together with the standard accessories. Any other optional accessories will be packed separately.
- The weight of the monitor differs - depending on the type - from 29 to 43 kg. Due to the size and weight it is recommended to move it by 2 people.
- The protective glass and the glass substrate are installed on the front of the product. Since both glass can be broken and scraped easily the product has to be handled with care. Never place the monitor with the glass faced down unless it is protected with pads.
- After opening the carton ensure that the content is in good condition and complete.

2.2 PACKAGE CONTENTS

Please verify that you received the following items with your package content:

1 Monitor

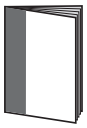
2 Remote Control with batteries

3 User Manual on CD-ROM

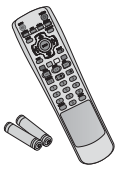
4 Power Cables (UK, Continent)

5 VGA, DVI cable

6 Table stand (feet)



User Manual



Remote Control/
AAA Batteries

Power Cord

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2.3 INSTALLATION NOTES

- Due to the high power consumption, always use the plug exclusively designed for this product. If an extended line is required, please consult your service agent.
- The product should be installed on a flat surface to avoid tipping.The distance between the back of the product and the wall should be maintained for proper ventilation. Avoid installing the product in the kitchen, bathroom or any other places with high humidity so as not to shorten the service life of the electronic components.
- Please ensure the product is installed horizontally. Any 90 degrees clockwise or counter-clockwise installation may induce poor ventilation and subsequent component damage.
- To protect the screen and avoid screen damage, do not display a still picture for a long time.
- The PDP can normally operate only under 2000m in height. It might abnormally function at a place over 2000m in height and do not install and operate there.

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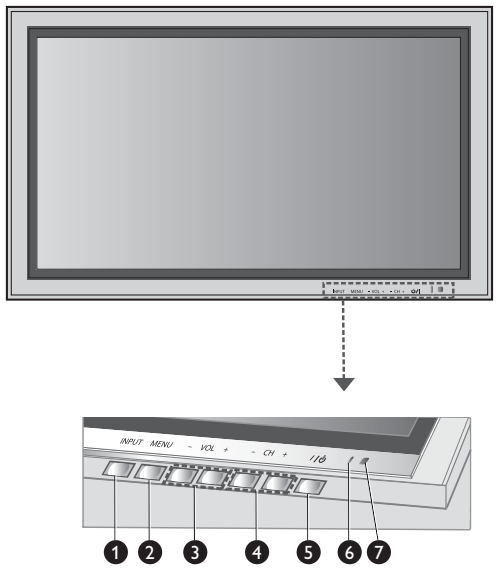
3. PARTS AND FUNCTIONS



3.1 FRONT VIEW

1. **Input Button**
   Use this button to switch between available inputs.
2. **Menu Button**
   Use this button to engage the On Screen Display menu.
3. **Volume Adjustment Buttons**
   Use these buttons to adjust volume up and down. These keys also serve as navigation and adjustment keys when On Screen Display menu is engaged.
4. **Select Buttons**
   Use these buttons to navigate through the the On Screen Display menu. If an optional TV tuner is installed, these buttons also function as Channel Up/Down.
5. **Power (Standby) Button**
   Turns power on/off from standby mode. There is a wait period between on/off cycles.
6. **Status LED**
   - **Not Illumated = No AC Power detected**
     If the main power switch (rear of panel) is turned off, this LED will not illuminate.
   - **Red = Standby (Power OFF) with AC power detected**
     The LED will illuminate in red color if the monitor is shut off but the main power cord is plugged into the back of the unit.
   - **Solid Green = Power ON**
7. **Remote Control Signal Receiver**
   Point the remote control towards this spot on the PDP.

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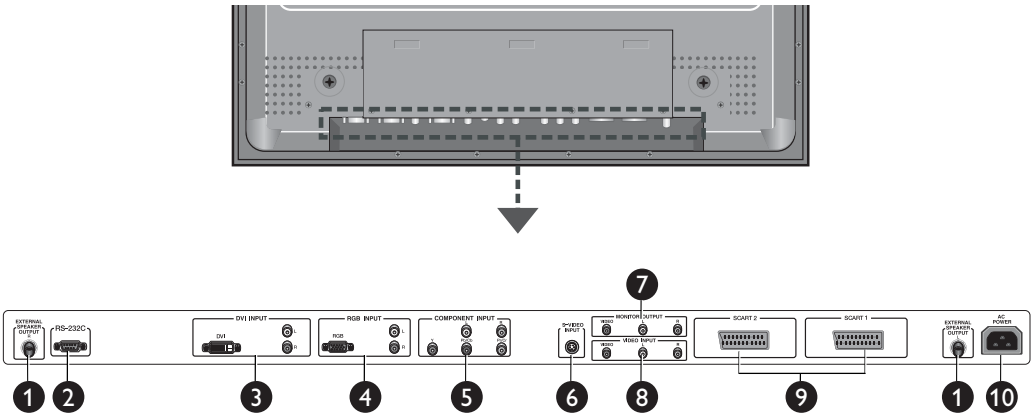
3.2 REAR VIEW



1. **External speaker output**
   Connect to external speakers.
2. **RS-232 Connector**
   Connect to a PC to update software.
3. **Digital DVI input**
   Connect to digital video signals from a Set-Top box or Computer Audio Output.
4. **RGB(VGA) input**
   Connect to RGB (VGA) output of Computer or Set-Top box.
5. **Component Video inputs**
   Auto-detecting component video inputs (Y/Pb/Pr or Y/Cb/Cr) for connecting to the component output jacks of a DVD player or Set-Top Box.
6. **S-Video input**
   Connect S-Video signals from external sources such as VCRs or DVD players.
7. **Monitor output**
   Connect to the video and audio input of a recording VCR or DVD. Connect to the audio input of an audio system.
8. **Video input**
   Connect to the video and audio output of an external device.
9. **SCART (AV) Connector**
   Connect to external sources such as VCRs or DVD players.
10. **Power connection**
    Connect the supplied power cord to the wall outlet.

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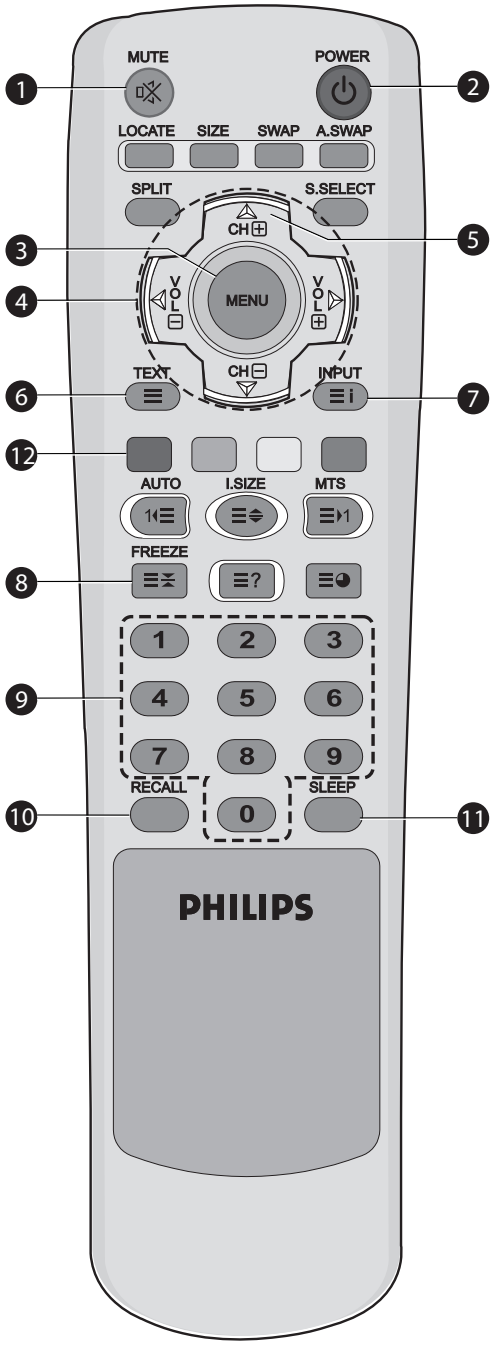

3.3 REMOTE CONTROL

3.3.1 GENERAL FUNCTIONS

1. Sound Mute On/Off

2. Standby Power On/Off
Push this button to switch on the monitor from Standby mode. Push it again to turn it off to Standby mode.

3. Menu
Activates the OSD (On Screen Display) menu

4. Volume +/-
Turns volume up or down.

5. Channel Up/Down
Changes the TV channels sequentially.

6. TEXT
Activates the TELETEXT mode.

7. INPUT
Displays the available input sources.

8. FREEZE
Freeze the display on the screen. The playback system will continue playing.

9. Number keypad
Use number keypad to select the TV channel you want to watch

10. RECALL
Display information.

11. SLEEP
Press this button to set timer off.

12. AUTO
Auto adjustment with RGB and DVI

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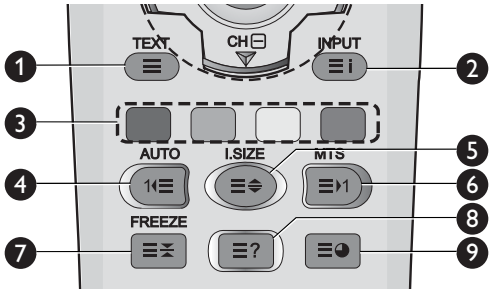
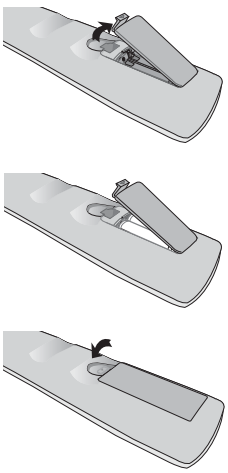


3.3.2 TELETEXT FUNCTION BUTTONS

1. **TEXT**
   Activates the TELETEXT mode.
2. **INPUT**
   Displays the TELETEXT index.
3. **Fasttext**
   With fasttext, you can easily access the topic and relevant pages you want by pressing the red, green, yellow and blue buttons on the remote control.
   In TELETEXT mode, volume controls remain available, but the relevant symbols are not shown on the screen.
4. **Page Up (AUTO)**
   Dispays the next TELETEXT page.
5. **Zoom (I.SIZE)**
   Press the I.SIZE key once to zoom in on the top part of the screen. Press twice to zoom in on the bottom part of the screen and three times to return to normal display.
6. **Page Down (MTS)**
   Displays the previous TELETEXT page.
7. **FREEZE**
   Freezes the current page, preventing update and subpage display.
   - Press the HOLD/POSITION key on the remote control to select this function.
   - Press the HOLD/POSITION key again to cancel.
8. **Reveal**
   Reveals hidden page information. Press the Reveal button to show the information again.
9. **Sub-page**
   Press to display a secondary page by entering its number.



3.3.3 INSERTING THE BATTERIES IN THE REMOTE CONTROL

1 Remove the cover on the rear of the remote control.

2 Insert two AAA size 1.5V batteries ensuring that the "+" and "-" ends of the batteries are correctly aligned.

3 Replace the cover.

Note:
Do not mix battery types, e.g. alkaline and managnese.

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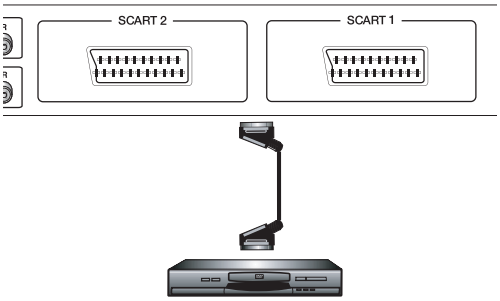
4. CONNECTIONS TO EXTERNAL EQUIPMENT

4.1 CONNECTING EXTERNAL EQUIPMENT (VCR, DVD, CAMCORDER, SATELLITE RECEIVER)

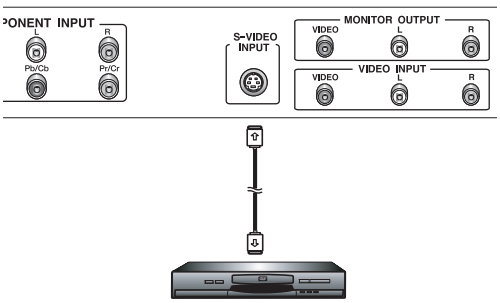
4.1.1 USING SCART (AV) SOCKET INPUT



1 Connect the SCART socket of the external decvice to the SCART socket of the monitor.

2 Connect the videorecorder to the antenna wall socket or cable box.

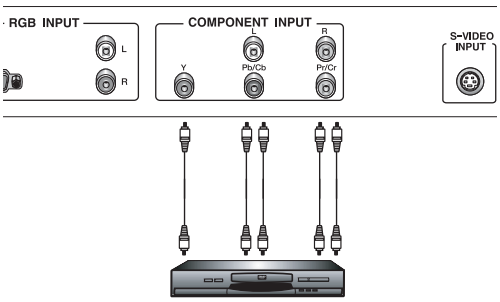
4.1.2 USING S-VIDEO INPUT



1 Connect the S-Video (4-pin DIN) connector of the external decvice to the "S-VIDEO" input of the monitor.

2 Connect the red (R) and white (L) audio jacks of the device to the R and L audio-in jacks located next to the S-VIDEO connector.

4.1.3 USING COMPONENT VIDEO INPUT



1 Connect the green-colored (labeled as "Y") jack of the device to the green-colored "Y1" jack of the monitor.

2 Connect the red-colored (labeled as "Pr") jack of the device to the red-colored "PR/CR" jack of the monitor.

3 Connect the blue-colored (labeled as "Pb") jack of the device to the blue-colored "PB/CB" jack of the monitor.

4 Connect the red (R) and white (L) audio jacks of the device to the R and L audio-in jacks of the monitor.

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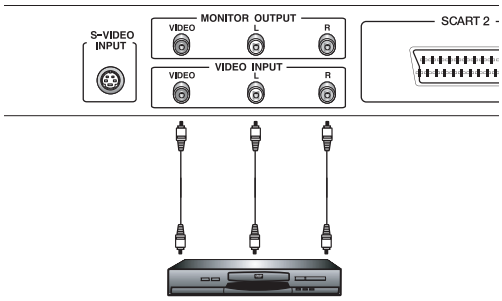
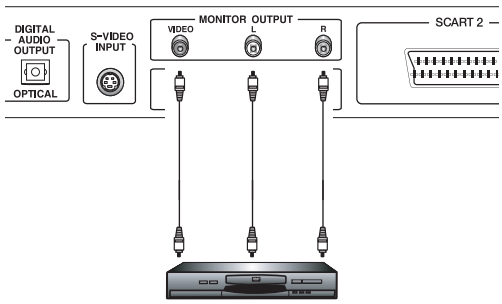


4.1.4 USING VIDEO INPUT

1 Connect the jack of the external device to the **VIDEO INPUT** of the monitor.

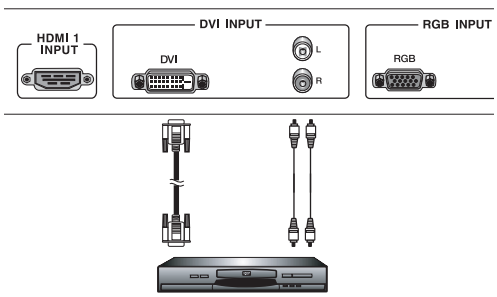
2 Connect the red (R) and white (L) audio jacks to the R and L audio-in jacks located next to the VIDEO connector.



4.1.5 USING MONITOR OUTPUT

1 Connect the jack of the DVD or VCR (for recording) or audio system to the **MONITOR OUTPUT** of the monitor.

2 Connect the red (R) and white (L) audio jacks to the R and L audio-in jacks located next to the VIDEO connector.



4.1.6 USING DVI INPUT

1 Connect the DVI-jack of the DVD, decoder or satellite receiver to the **DVI iNPUT**.

2 Connect the red (R) and white (L) audio jacks to the R and L audio-in jacks located next to the **DVI** connector.

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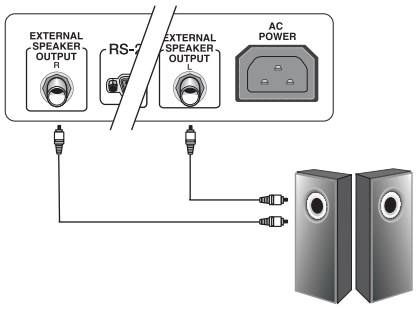

4.2 EXTERNAL AUDIO CONNECTION

4.2.1 CONNECTING EXTERNAL AMPLIFIED SPEAKERS

This monitor can be connected to an external set of amplified speakers using the AUDIO OUT jacks located on the back of the monitor.

1 Connect the red (R) and white (L) AUDIO OUT jacks to the external amplified speakers.

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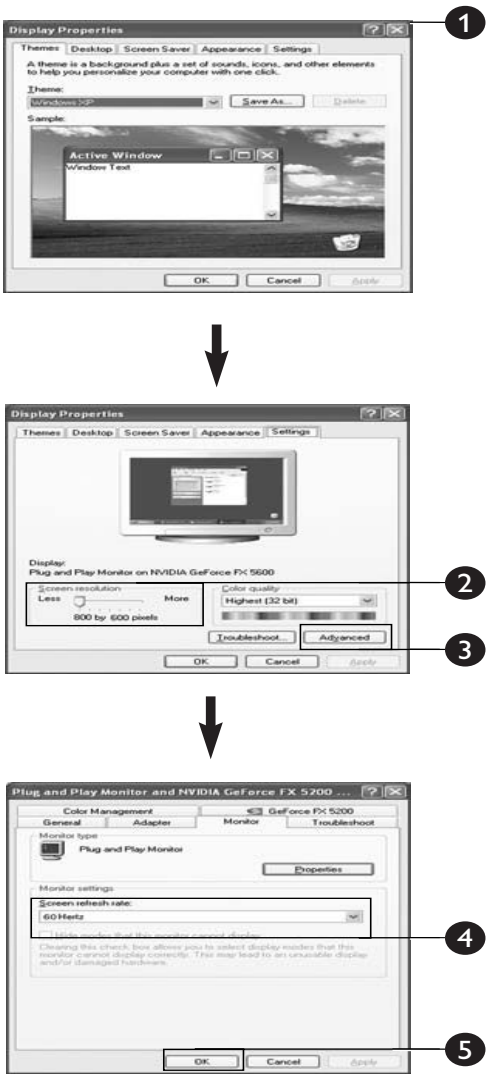

4.3 CONNECTING A PC

4.3.1 USING RGB (VGA) OR DVI VIDEO INPUT

1 Connect the 15-pin D-Sub RGB(VGA) connector of the PC to the RGB-IN connector of the monitor.
If you have a PC that is equipped with a DVI (Digital Visual Interface), you may connect the PC DVI connector from the PC to the DVI-IN connector of the monitor.

2 For both RGB (VGA) and DVI, connect the red (R) and white (L) audio jacks of the PC to the R and L (DVI/RGB) AUDIO IN jacks of the monitor.

Setting Up Your Display Using Plug and Play

This display adheres to VESA Plug and Play standard to eliminate complicated and time consuming setup of monitors. This monitor identifies itself to the computer and automatically sends the PC its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols.

How to Set up Your PC for Use with Monitor (Windows)

The display settings for a typical Windows-based computer are shown below. However, the actual screens on your computer will differ depending on the version of Windows and video card equipped with the computer. Even though the actual screen may look different from example displayed below, basic set-up routine will apply in most cases.

1 Go to the Window's CONTROL PANEL by clicking START, SETTINGS, CONTROL PANEL.
> The CONTROL PANEL Window is displayed.

2 Select the DISPLAY icon from this window.
> The DISPLAY PROPERTIES dialog box is displayed.

3 Select the SETTINGS tab to display your computer's video output settings.

4 Set the "Screen Resolution" settings to 1024x768 PIXELS. For COLOR QUALITY, select 24 BIT COLOR (might also be expressed as 16 million colors).

5 If a vertical-frequency option is available, set the value to 60 or 60 Hz.

6 Click OK to complete the setting.

Note:

Both screen position and size will vary, depending on the type of PC graphics card and its resolution selected. See # for an overview of the supported resolutions.

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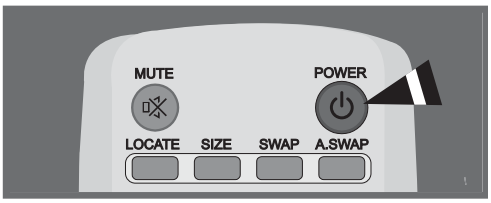
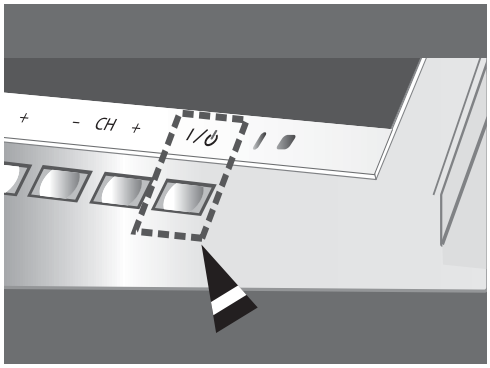
5. BASIC FUNCTIONS





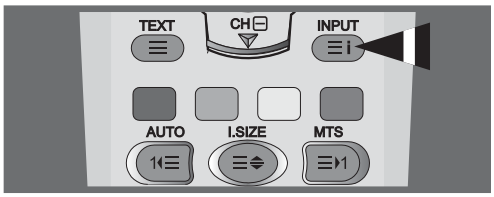
5.1 POWERING ON / OFF

Make sure the monitor is plugged into the wall outlet with the supplied power cord.
If the power is plugged in, the STATUS LED on the control panel will illuminate in red color.

Using Front Panel or Remote Control

1 Press the POWER key on the front panel or the remote control.
=> The monitor will now turn on after a brief pause. The STATUS LED will now turn green to indicate power on status.

2 Turn off the power by pressing the POWER key on the front panel or the remote control again.



5.2 SELECTING SIGNAL SOURCE

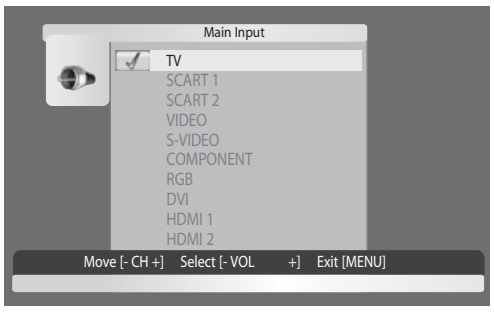
Using Front Panel or Remote Control

1 Press the **INPUT** key on the front panel or the AV key on the remote control.

2 Pressing the **CH+** or **CH-** key will cycle the monitor through all available input signal sources in the following order:

SCART1 - SCART2 - VIDEO - S-VIDEO - COMPONENT - RGB - DVI

3 Press the **VOL+** or **VOL-** button to select the source.



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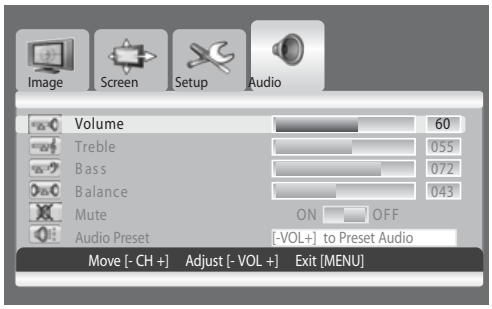
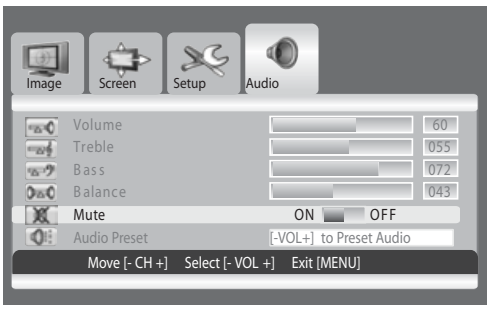




5.3 VOLUME ADJUSTMENT

Using Front Panel or Remote Control

1 Press the **MENU** button on either the front panel or on the remote control.

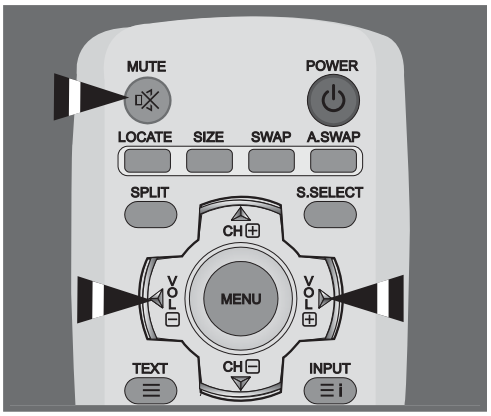
2 Press the **VOL+** or **VOL-** button to select **Audio**.

3 Press the **CH-** button to enter the selected menu group.

4 Press the **VOL+** or **VOL-** button to adjust the sound volume.

Note:
If the monitor's built-in speakers are turned off, then the volume controls will not affect volume generated by the built-in speaker.

5.4 MUTE



Using Remote Control

1 Press the **MUTE** key on the remote control.
=> The audio is cut off.

2 Press the the **MUTE**, **VOL+** or **VOL-** key to turn the audio back on.

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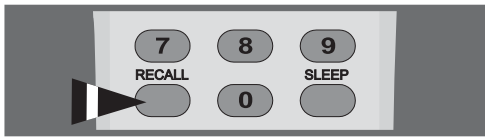
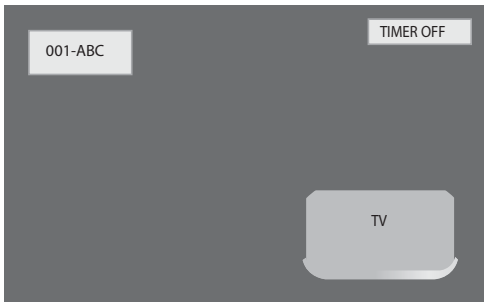
5.5 DISPLAY INFORMATION





Via Remote Control

Press the **RECALL** button to display the channel information and setting status. Press again to exit.

Note

The displayed information can differ, depending on the selected source.

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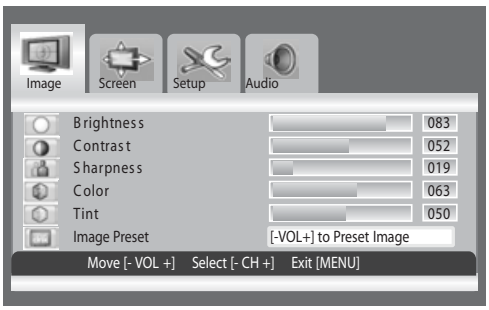
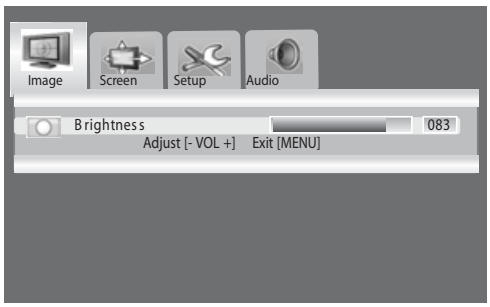
6. ADVANCED FUNCTIONS

6.1 PICTURE CONTROLS

6.1.1 ADJUSTING PICTURE SETTINGS





Various picture adjustments can be set using the Picture Adjustment OSD menu.

1 Press the **MENU** button on the monitor panel or remote control. The **Image** menu is displayed.

2 Press the **CH+** keykey to enter the selected menu group.

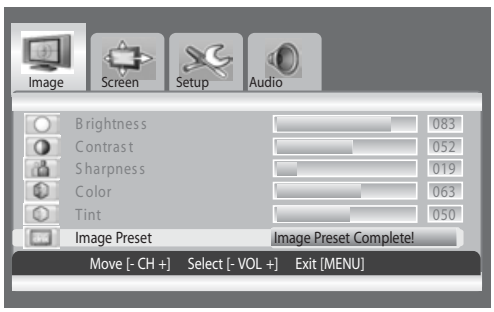
3 Press the **CH-** or **CH+** key to select the option to be adjusted. Depending on the input source, the following menu's appear:

- Brightness – Contrast – Sharpness – Color – Tint – Image preset
- Brightness – Contrast – Phase – Frequency – Sharpness (RGB (PC) mode)

4 Press the **VOL+** or **VOL-** key to select the optimal setting.

5 Press the **MENU** button to return to the previous menu.

6.1.2 RESET TO THE FACTORY DEFAULTS



1 Press the **CH+** or **CH-** key to select **Image Preset**.

2 Press the **VOL+** or **VOL-** key to reset the picture settings to the factory defaults.

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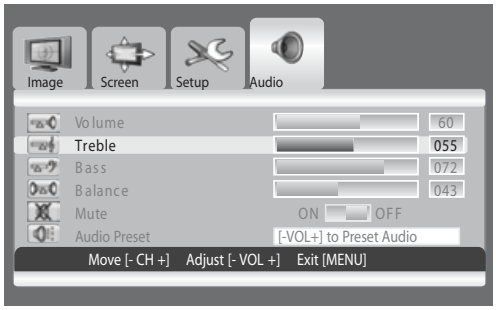
6.2 SOUND CONTROLS

6.2.1 ADJUSTING SOUND SETTINGS



Various sound adjustments can be set using the Sound Adjustment OSD menu.

1 Press the **MENU** button on the monitor panel or remote control.

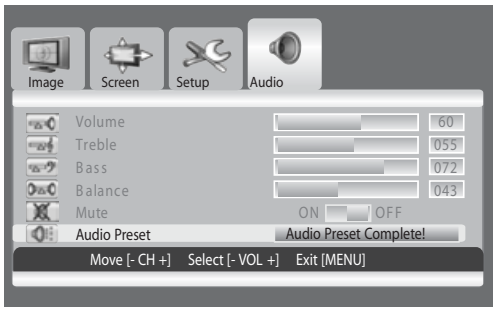
2 Press the **VOL+** or **VOL-** key to select **Audio**.

3 Press the **CH-** key to enter the selected menu group.

4 Press the **CH+** or **CH-** key to select the desired option:

Treble - Bass -Balance

5 Press the **VOL+** or **VOL-** key to adjust the settings.



Note:
You can reset the sound settings to the factory defaults:

1 Press the **CH+** or **CH-** key to select **Audio Preset.**

2 Press the **VOL+** or **VOL-** key.

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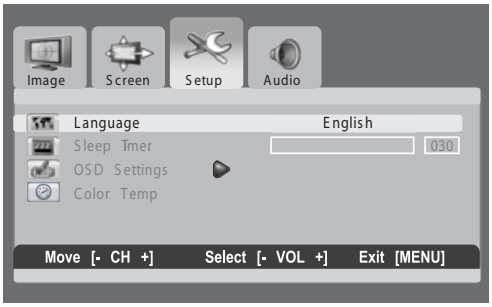
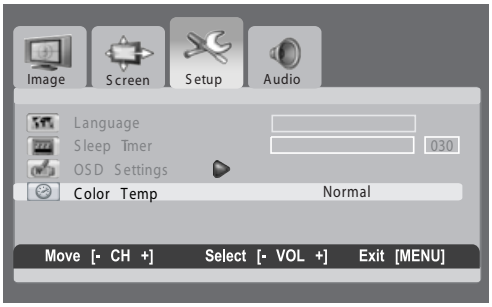


6.3 OSD MENU LANGUAGE

This monitor has multiple OSD Menu languages built-in including English, French, Spanish, Italian, German and Dutch.

Setting OSD Menu Language

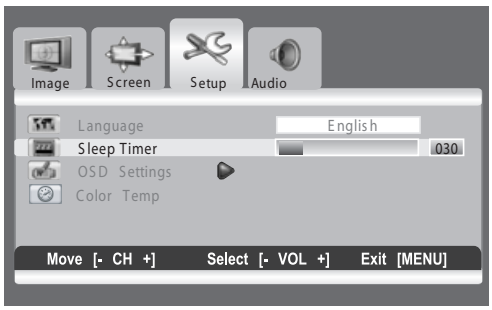
1. Press the **MENU** button on the monitor panel or remote control.
2. Press the **VOL+** or **VOL-** key to select **Setup**.
3. Press the **CH-** key to enter the selected menu group.
4. Press the **VOL+** or **VOL-** key to select the required language.



6.4 ADJUSTING THE COLOR TEMPERATURE

You can change tint of the entire screen to suit your requirements.

1. Press the **MENU**.
2. Press the **VOL+** or **VOL-** button to select setup.
   Press the **CH-** button to enter the selected menu group.
   The color temp is selected.
3. Press the **VOL+** or **VOL-** button to select required option.
   WARM - NORMAL - COOL



6.5 POWER SAVE MODE

This monitor is equipped with a Power Save mode under RGB(VGA) or DVI input modes. When there are no signals detected by the monitor for a certain time, the monitor will automatically go into sleep mode until signal is restored. You can select a time period between 10 and 180 minutes.

Setting Power Save Mode

1. Press the **MENU** button on the monitor panel or remote control.
2. Press the **VOL+** or **VOL-** key to select Setup.
3. Press the **CH-** key to enter the selected menu group.
4. Press the **CH+** or **CH-** key to select Sleep Timer.
5. Press the **VOL+** or **VOL-** key to select the required time interval.

Note:
You can simply select required time interval by repeatedly pressing the **SLEEP** button on the remote control.

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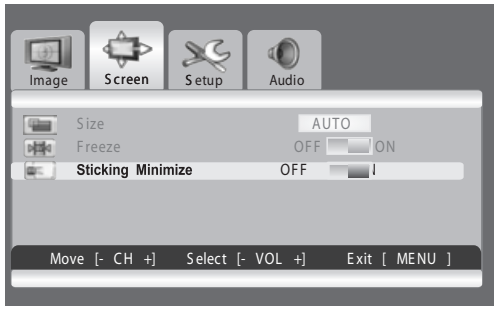
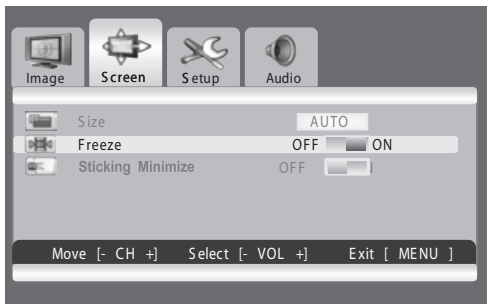


6.6 MINIMIZE SCREEN STICKING

If the fixed pattern is displayed for a long time, a difference in brightness is caused around the lighting area and non-lighting area due to deterioration in the fluorescent substance used in the plasma module. It comes to be recognized as image sticking. This feature allows you to make the occurrence of image sticking as slow as possible.

Minimize screen sticking

1. Press the **MENU** button on the monitor panel or remote control.
2. Press the **VOL+** or **VOL-** key to select **Screen**.
3. Press the **CH-** key to enter the selected menu group.
4. Press the **CH+** or **CH-** key to select **Sticking Minimum**.
5. Press the **VOL+** or **VOL-** key to select the required option (**OFF** or **ON**).

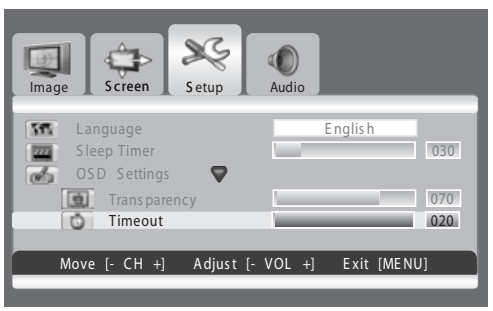


6.7 FREEZING THE CURRENT PICTURE

You can freeze the picture when watching a television program.

1. Press the **MENU** button.
2. Press the **VOL+** or **VOL-** key to select Screen.
3. Press the **CH-** key to enter the selected menu group.
4. Press the **CH-** or **CH+** key to select Freeze.
5. Press the **VOL+** or **VOL-** key to select required option (**OFF** or **ON**).

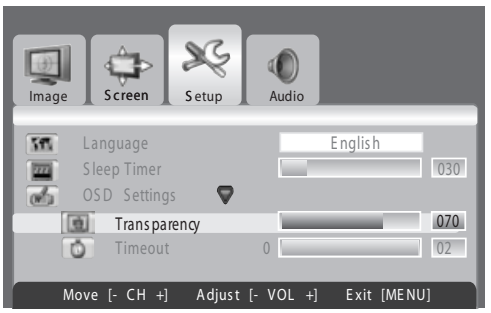
Note:
Simply press the **FREEZE** button on the remote control. then current picture is stilled. To return to normal viewing press it again.



6.8 ON-SCREEN DISPLAY TIMEOUT

You can select for how long the OSD will be snown.

1. Press the **MENU** button.
2. Press the **VOL+** or **VOL-** key to select Setup.
3. Press the **CH-** key to enter the selected menu group.
4. Press the **CH-** or **CH+** key to select OSD Settings.
5. Press the **Vol+** key to enter the selected menu group.
6. Press the **CH-** or **CH+** key to select Timeout.
7. Press the **VOL+** or **VOL-** key until you reach the optimal setting



6.9 ADJUSTING THE MENU TRANSPARENCY

You can give the transparency OSD background.

1. Press the **MENU** button.
2. Press the **VOL+** or **VOL-** key to select Setup.
3. Press the **CH-** key to enter the selected menu group.
4. Press the **CH-** or **CH+** key to select OSD Settings.
5. Press the **VOL+** key to enter the selected menu group.
   > The **Transparency** is selected.
6. Press the **VOL+** or **VOL-** key until you reach the optimal setting.

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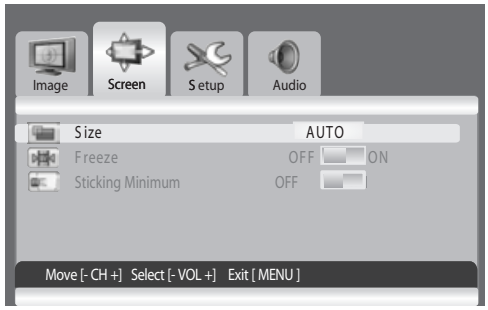
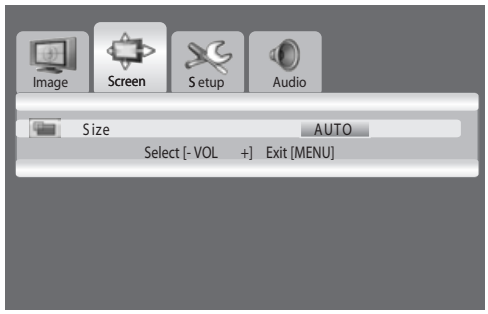




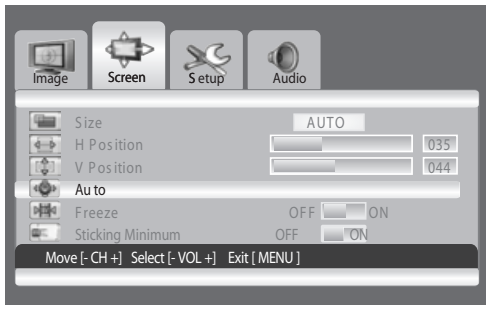
6.10 CHANGING THE SCREEN SIZE

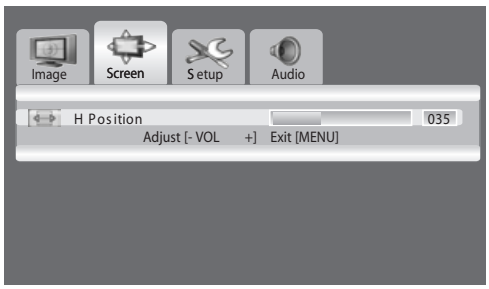
You can select the screen size which best corresponds to your viewing requirements.

1 Press the **MENU** button.
2. Press the **VOL+** or **VOL-** key to select Screen.
3. Press the **CH-** key to enter the selected menu group.
   > The Size is selected.
4. Press the **VOL+** or **VOL-** key to select required screen size.

AUTO - FILL ALL - FILL ASPECT - ZOOM - ANAMORPHIC - *WIDE
(*WIDE is only available when the split screen mode is not selected.)

Note:
You can simply select required screen size by repeatedly pressing the I.SIZE (Image SIZE) button on the remote control.





6.11 SETTING UP THE PC INPUT

- **Preset to the RGB mode by pressing the INPUT button.**

1. Press the **MENU** button.
2. Press the **VOL+** or **VOL-** key to select **Screen.**
3. Press the **CH-** key to enter the selected menu group.

- **Adjusting the PC screen automatically**

1. Press the **CH-** or **CH+** key to select **Auto**.
2. Press the **VOL+** or **VOL-** key.
   >The screen quality and position are automatically adjusted.

Note:
You can adjust the PC screen automatically by simply pressing the AUTO button on the remote control.

- **Selecting the position of the PC screen if it does not fit the PDP screen**

1. Press the **CH+** or **CH-** button to select **H Position** or **V Positing.**
2. Press the **VOL+** or **VOL-** key to fit the TV screen until you reach the optimal setting.

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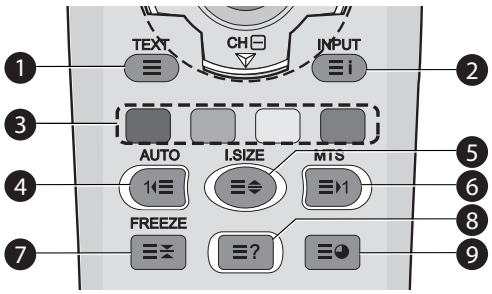
6.12 TELETEXT

The Teletext service is available in many countries under a variety of names (TOP Text, Fastext, FLOF test, Videotext). It is provided as a free service by some television broadcasters. This service provides a real wealth of information, available at any time, on weather, sporting results, news, games, etc. The information is presented in pages organised in topics specified in colour on the screen and you can access this information by simply pressing the buttons of the same colour on the remote control.
This product doesn't have a tuner inside, but an external settop box may still contain channels with teletext information.



Accessing Teletext

1 Press the **CH+** or **CH-** key to select the required source.

2 Press the **TEXT** button(1) on the remote control.
=> Teletext opens on the insdex page (100).

3 Press the **TEXT** button again to exit.

Select a specific Teletext page

1 Enter the three-digit Teletext page number using the numeric buttons.
=> The current page is dislayed. If the selected page is linked to with several secondary pages these pages are displayed in sequence.

2 Press the **FREEZE** button (7) to freeze the display on a given page.

3 To resume, press the **FREEZE** button again.

Display TELETEXT index

1 Press the **INPUT** button (2) to display the TELETEXT index.

Fasttext

1 Press the **red, green, yellow** and **blue** buttons(3) on the remote control to easily access the topic and relevant pages you want.

Page UP (AUTO)

1 Press the AUTO button(4) to display the next TELETEXT page.

Zoom(I. SIZE)

1 Press the **I. SIZE** button (5) once to zoom in on the top part of the screen.

2 Press twice to zoom in on the bottom part of the screen and three times to return to normal display.

Page Down (MTS)

1 Press the **MTS** button(6) to display the previous TELETEXT page.

FREEZE

1 Press the **FREEZE** button (7) on the remote control to freeze the current page, preventing update and subpage display.

2 Press the **FREEZE** button again to cancel.

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Reveal

1 Press the Reveal button to hide page information. Press the button again to unhide.

Sub-page

1 Press to display a secondary page by entering its number.

Subtitles

Some channels provide subtitles for some of their programmes through Teletext. The numbers of the relevant pages are specified on the Teletext index page.

1 Enter the number of the relevant page to display the subtitles.
=> The subtitles appear in the TV picture. The header disappears after a couple of seconds.

2 Press any button on the remote control (except TEXT or the volume adjustment buttons) to display the subtitles again.

3 Press TEXT to return to TV mode.

Note:
In Teletext mode, volume controls remain available, but the relevant symbols are not shown on the screen.

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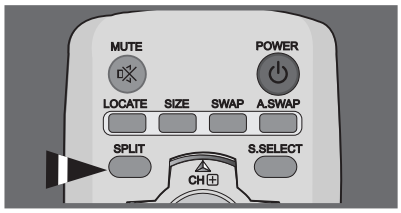

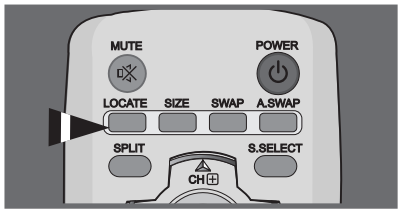

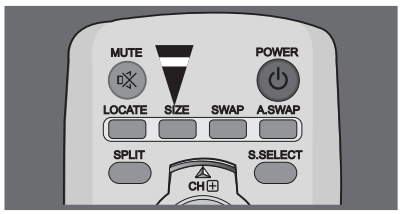

6.13 VIEWING THE PICTURE IN PICTURE (PIP)

You can display a sub-picture with the main picture. In this way you can watch monitor the video input from any connected devices while watching other video input.

- **Selecting a PIP mode**
  Press the **SPLIT** button repeatedly to select required mode.
  The available modes are displayed in the following order.
  NORMAL - PIP - PBP

- **Selecting a location of the sub-picture**
  Press the **LOCATE** button.
  Press the **VOL-, VOL+, CH-,** or **CH+** button to select required location. It is available in PIP mode only.

- **Selecting a size of the sub-picture**
  Press the **SIZE** button.
  Press the **VOL-** or **VOL+** button to select required size.
  It is available in **PIP** mode only.

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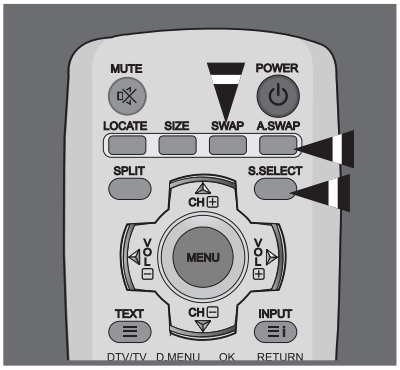

■ **Swapping the main picture and the sub-picture**
Press the **SWAP** button.
The main picture and the sub picture are interchanged.
It is available in **PIP** and **PBP** mode only.

Main Input \ Sub Input	SCART 1	SCART 2	Video	S-Video
SCART 1	X	O	O	O
SCART 2	O	X	O	O
Video	O	O	X	O
S-Video	O	O	O	X
COMPONENT	X	X	X	X
RGB	X	X	X	X
DVI	X	X	X	X

■ **Swapping the audio of the main or sub-picture**
Press the **A.SWAP** (**Audio SWAP**) button repeatedly.
You can hear the audio of the main or sub-picture alternately
It is available in **PIP** and **PBP** mode only.

■ **Selecting the main picture or the sub-picture**
Press the **S.SELECT** button repeatedly.
You can select the main or sub-picture alternately and adjust the status of selected picture.
It is available in **PIP** and **PBP** mode only.

■ **PIP Settings**

Main Input \ Sub Input	SCART 1	SCART 2	Video	S-Video
SCART 1	X	O	O	O
SCART 2	O	X	O	O
Video	O	O	X	O
S-Video	O	O	O	X
COMPONENT	O	O	O	O
RGB	O	O	O	O
DVI	O	O	O	O

- It is variable depending on the model.
In the PIP mode, the sub input source is differently defined for the default value (scart1 or scart2) depending on your PDP model.

6.13 REMOTE MANAGEMENT

This display can be managed remotely through the RS232 9-pin port, by using a Serial Interface Communication Protocol (SICP).
The specifications of the SICP protocol can be found in a separate document, called "SICP User Manual".

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7. INPUT MODE

VGA Resolution

Standard resolution	Active Resolution		Refresh Rate	Pixel Rate	Aspect ratio	Stand for Mode
	H Pixels	V Lines				
VGA	640	480	60	25.175 MHz	16:9	Video Graphic Array
			72	31.5 MHz		
			75	31.5 MHz		
WVGA	848	480	60		16:9	Wide Video Graphic Array
SVGA	800	600	60	40 MHz	16:9	Super VGA
			72	50 MHz		
			75	49.5 MHz		
XGA	1024	768	60	65 MHz	16:9	Super VGA Extended Graphic Array
			70	75 MHz		
			75	78.5 MHz		
SXGA	1280	1024	60	108 MHz	16:9	Super XGA

SDTV Resolution

Standard resolution	Active Resolution		Refresh Rate	Pixel Rate	Aspect ratio	Stand for Mode
	H Pixels	V Lines				
480i	720	480	29,97 Hz	13,5 MHz	4:3	Modified DVB Mode
480p			59,94 Hz	27 MHz		
576i	720	576	25 Hz	13.5 MHz	4:3	Modified PAL Standard
576p			50 Hz	27 MHz		

HDTV Resolution

Standard resolution	Active Resolution		Refresh Rate	Pixel Rate	Aspect ratio	Stand for Mode
	H Pixels	V Lines				
720p	1280	720	30 Hz	74,25 MHz	16:9	Normally DVB Mode
			50 Hz			
1080i	1920	1080	25 Hz	74,25 MHz	16:9	Normally ATSC Mode
			30 Hz			
1080p	Not supported					

- The PC text quality is optimumin in XGA mode (1024 x 768, 60Hz).
- When this PDP is used as a PC display, 24-bit color is supported (over 16 million colors).
- Your PC display screen mightapear different depending on the manufacture (and your particular version of Windows). Chec your PC instruction book for information about connecting your PC to a display.
- If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 31.5kHz (horizontal). In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the INPUT button to enter the video mode. Also, make sure that the PC is connected.
- When connecting a notebook PC to the PDP, make sure that the PC screen is displayed through only the PDP (Otherwise, random signals might appear).

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- When horizontal synchronous signals seem irregular in RGB mode, check PC power saving mode or cable connections.
- The display settings table complies to the IBM/VESA standards, and based on the analog input.
- The DVI support mode is regarded as same to the PC support mode.
- The best timing for the vertical frequency to each mode is 60Hz.

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8. TECHNICALS SPECIFICATIONS

Display

Item	42" SD	42" HD	50" HD
Screen Size (Active Area)	42" (920.1(H) x 518.4(V) ±0.5mm)		50" (1106.5(H) x 622.1(V) ±0.5mm)
Aspect ratio	16:9		
Number of pixels	852 (H) x 480 (V)	1024 (H) x 768 (V)	1366 (H) x 768 (V)
Pixel pitch	1.080(H) x 1.080(V) [mm]	0.900(H) x 0.676(V) [mm]	0.810(H) x 0.810(V) [mm]
Displayable Colors	1 billion (Option)		
Brightness	1500 cd/m2	1000 cd/m2	1000 cd/m2
Contrast Ratio	10.000:1	5000:1	8000:1
Color Temperature	9500 K		
Viewing Angle	Over 160 degrees		

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In / Out Terminals

Item		42" SD ; 42" HD ; 50" HD
Speaker Output	Internal speaker (option))	10W (L) + 10W (R) [RMS] / 8Ω 2 Way 2 Speaker
	External speaker (optionn))	10W(L) + 10W (R) [RMS] / 8Ω 2 Way 6 Speaker
RS-232C	D-Sub Jack x 1 (9 pin)	TXD + RXD (1:1)
DVI input	DVI Jack x 1 (24 pin)	Digital RGB : TMDS MAX : 720p, 1080i, 1280 x 1024 / 60 Hz (SXGA)
	RCA Jack x 1	Audio : 0.5V [rms](Normal) / 2 Channel (L + R)
RGB Input	D-Sub Jack x 1 (15 pin)	Analog RGB : 0.7V[p-p](75Ω), H/CS/V : TTL (2.2 kΩ), SOG : 1V[p-p](75Ω) MAX:720p, 1080i, 1280 x 1024 / 60 Hz (SXGA)
	RCA Jack x 1	Audio : 0.5V [rms](Normal) / 2 Channel (L + R)
Component Input	RCA Jack x 1	Y:1V[p-p](75 Ω), Pb/Cb:0.7V[p-p](75Ω) , Pr/ Cr:0.7V[p-p](75Ω) 480i, 576i, 480p, 576p, 720p, 1080i Audio : 0.5V[rms](Normal) / 2 Channel (L + R)
Monitor Output	RCA Jack x 1	Video : 1V[p-p] (75Ω) Audio : 0.5V[rms](Normal) / 2 Channel (L + R)
S-Video Input	Mini DIN Jack x 1 (4 pin)	Y : 1V [p-p] (75Ω), C: 0.286V [p-p] (75Ω)[NTSC] Y : 1V [p-p] (75Ω), C : 0.300V [p-p] (75Ω) [PAL / SECAM]
Video Output	RCA Jack x 1	Video : 1V [p-p] (75Ω) [NTSC / PAL / SECAM] Audio : 0.5V [rms] (Normal) / 2 Channel (L + R)
Scart of Video 1,2	Scart Jack x 2 (21 pin) [Full x 1, Half x 1] or RCA Jack x 1	Video : 1V[p-p] (75Ω)Y : 1V[p-p] (75Ω) , C: 0.3 V[p-p] (75Ω)RGB : 0.7V[p-p] (75Ω)Audio : 0.5V[rms](Normal) / 2 Channel (L + R)

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General

Item	42" SD	42" HD	50" HD
Power Supply	AC 100 V ~ 240 V, 50/60 Hz		
Power Consumption	250 W	300 W	440 W
Dimension (With Stand) [W mm x H mm x D mm]	1028 x 625 x 8 9.8 (A)	1028 x 625 x 107.4 (B)	1205 x 721 x 114.3 (D)
Weight (Without Stand)	29 kg	31 kg	43 kg

Environment Condition

Item		42" SD ; 42" HD ; 50" HD
Temperature	Operational	0 ~ 40
	Storage	-20 ~ 60
Humidity	Operational	20 ~ 80% RH (No condensation)
	Storage	10 ~ 90% RH (No condensation)
Pressure	Operational	800 ~ 1 100 hPa (Al titude: 0 ~ 2,000 m)
	Storage	700 ~ 1 100 hPa (Al titude: 0 ~ 3,000 m)

External Speaker (Option)

	Specifications	
	42"	50"
Dimension (W x H x D)	113 mm x 626.6 mm x 82.2 mm	90 mm x 721 mm x 68 mm
Weight	5 kg (L + R)	3 kg (L + R)
Type	2 Way 6 Speaker System	
Input	10 W (R MS)	
Impedence	8 Ohm	
Output Sound Pressure	87 dB/W /M	
Frequency Response	45 H z ~ 20 KH z	

Internal Speaker (Option)

	Specifications
Type	2 Way 6 Speaker System
Input	10 W (R MS)
Impedence	8 Ohm
Output Sound Pressure	88 dB/W /M
Frequency Response	140 H z ~ 10 KHz

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9. CLEANING AND TROUBLESHOOTING

9. 1 CLEANING

Cautions When Using the Plasma Display

- Do not bring your hands, face or objects close to the ventilation holes of the plasma dislay. Top of plasma dislay is usually very hot due to the high temperature of exhaust air being released through the ventilation holes. Burns or personal injuries may occur if any body parts are brought too close. Placing any object near the top of the display could also result in heat related damages to the object as well as the display itself.
- Be sure to disconnect all cables before moving the plasma display. Moving the display with its cables attached may damage the cables and thus case fire or electric shock danger.
- Disconnect the power plug from the wall outlet as a safety precaution before carrying out any type of cleaning or maintenance procedure.

Freont Panel Cleaning In structions

- The front of the display has been specially treated. Wipe the surface gently using only a cleaning cloth or a soft, line-free cloth.
- If the surface is particular dirty, soak a soft, line-free cloth in a mild detergent solution. Wring the cloth to remove excess liquid. Wipe the surface of the display to remove dirt. Then use a dry cloth of the same type to dry.
- Do not scratch or hit the surface of the panel with fingers or hard objects of any kind.
- Do not use volatile substances such as insert sprays, solvents and thinners.

Cabinet Cleaning Instructions

- If the cabinet becomes dirty, wipe the cabinet with a soft, dry cloth.
- If the cabinet is extremely dirty, soak a lint-free cloth in a mild detergent solution. Wring the cloth to remove as much moisture as possible. Wipe the cabinet. Use another dry cloth to wipe over until the surface is dry.
- Do not allow any water or detergent to come into contact with the surface of the display. If water or moisture gets inside the unit, operating problems, electrical and shock hazards may result.
- Do not scratch or hit the cabinet with fingers or hard objects of any kind.
- Do not use volatile substances such as insert sprays, solvents and thiners on the cabinet.
- Do not place anything made from rubber or PVC near the cabinet for any extended periods of time.

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9.2 TROUBLESHOOTING

Symptom	Possible Cause	Remedy
No picture is displayed	1. The power cord is disconnected. 2. The main power switch on the back of the monitor is not switched on. 3. The selected input has no connection. 4. The monitor is in standby mode in RGB mode.	1. Plug in the power cord. 2. Make sure the power switch is switched on. 3. Connect a signal connection to the monitor. 4. Press any key on your keyboard.
Interference displayed on the monitor or audible noise is heard	Caused by surrounding electrical appliances, cars/motor cycles or fluorescent lights.	Move the monitor to another location to see is the interference is reduced.
Color is abnormal	The signal cable is not connected properly.	Make sure that the signal cable is attached firmly to the back of the monitor.
Picture is distorted with abnormal patterns	1. The signal cable is not connected properly. 2. The input signal is beyond the capabilites of the monitor.	1. Make sure that the signal cable is attached firmly. 2. Check the video signal source to see if it is beyond the range of the monitor. Please verify its specifications with this monitor's specification section.
Display image doesn't fill up the full size of the screen	1. If under RGB mode, the H-Size and V-Size is incorrectly set. 2. If under AV1, AV2, or Component with 480i input, the 4:3 WIDE mode is switched on.	1. Use H-Size and V-Size to adjust the size of the video. 2. Use the WIDE key to scroll through various full screen modes.
Can hear sound, but no picture	Improperly connected source signal cable.	Make sure that both video inputs and sound inputs are correctly connected.
Can see picture but no sound is heard	1. Improperly connected source signal cable. 2. Volume is turned all the way down. 3. MUTE is turned on.	1. Make sure that both video inputs and sound inputs are correctly connected. 2. Use VOLUME +/- to hear sound. 3. Switch MUTE off by using the MUTE button.
Some picture elements do not light up	Some pixels of the plasma display may not turn on	This monitor is manufactured using an extremely high level of precision technology: however, sometimes some pixels of the monitor may not display. This is not a malfuction. Please see the enclosed warranty card for more information.
After-Images can still be seen on the monitor after the monitor is powered off. (Examples of still pictures include logos, video games, computer images, and images displayed in 4:3 normal mode)	A still picture is displayed for an over extended period of time.	Do not allow a still image to be displayed for an extended period of time as this can cause a permanent after-image to remain on the monitor.

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10. LIMITED WARRANTY (EUR)

Two Year Free Laber
Two Year Free Parts

WHO IS COVERED?
You must have proof of the date purchased to receive warranty service. A sales receipt or other document showing the date that you purchased the product is considered proof of purchase.

WHAT IS COVERED?
Warranty cover age begins the day you buy your product. For two years thereafter, all defective parts will be repaired or replaced and labor is free. After two years from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges. All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?
Your warranty does not cover:

- labor charges for removal, installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Europe.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- modifications or adaptations to enable the product to operate in any country other that the country for which it was designed, manufactured, approved and/or authorized, or the repair of products damaged by these modifications.
- normal wear and tear (decreased light output of PDP mudule)over the product's lifetime.
- phosphor burn. Do not display static images for prolonged periods, otherwise phosphor burn might appear on part of the panel.
- limited quantity of cells (fine pixel elements) that do not produce light, or that remain lit after they should have turned off.

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WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumers Electronics Europe. In countries where Philips Consumers Electronics Europe does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE, OR IF YOU HAVE QUESTIONS...

Please contact Philips at one of the telephone numbers below:

Austria	0820 901115
Belgium	070 253 010
Denmark	35 25 87 61
Finland	09 2290 1908
France	08 9165 0006
Germany	0180 5 007 532
Greece	00800 3122 1223
Ireland	1 601 1161
Italy	199 404 042
Luxembourg	26 84 3000
Netherlands	0900 0400 063
Norway	22 70 82 50
Portugal	21 359 1440
Spain	902 888 785
Sweden	08 632 0016
Switzerland	02 2310 2116
United Kingdom	0906 1010 017
Russian	8 800 200-0880

Repair must be performed by an authorized service center or a factory service center. If you do not live near a factory service center, contact your dealer. If you dealer is an authorized service center, he will arrange repair.

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REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly.
It will be easier for us to notify you if necessary.

MODEL#_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

SERIAL#_ _ _ _ _ _ _ _ _ _ _ _ _ _ wo _ _ _

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